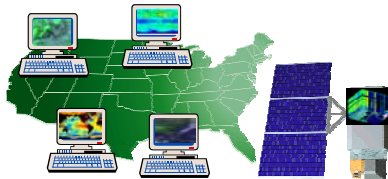
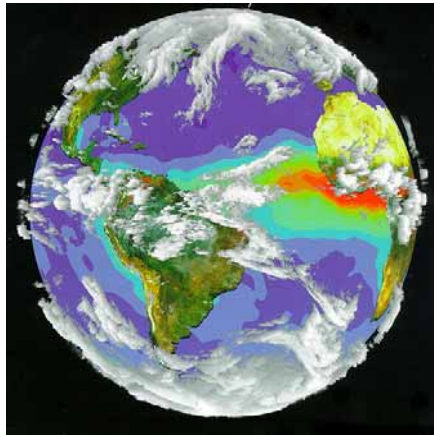
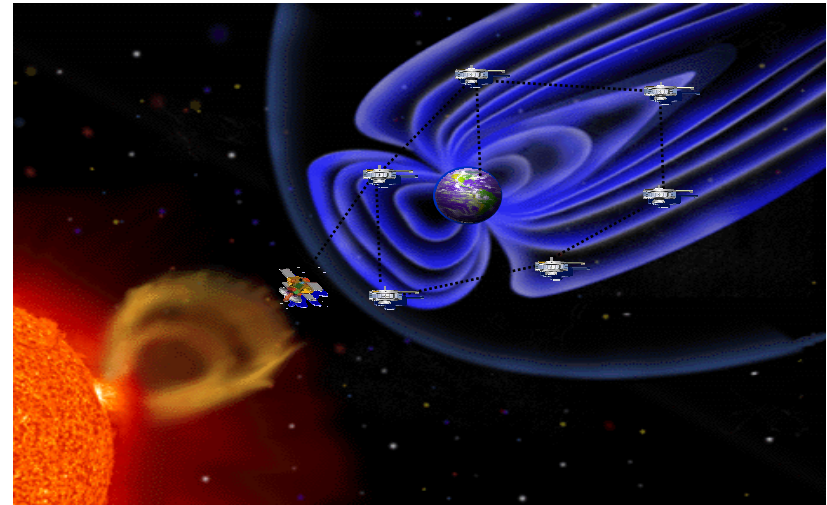




Information Systems Division / 580



Interoperable Models



Advanced flight and scientific information systems will support the execution and analysis of the scientific measurements and observations of the Earth and the Sun-Earth system.

July 14, 2005
All Hands Meeting



Agenda

- **GSFC Business Strategy**
- **State of the Information Systems Division**
- **Management Retreat Results**
- **Software Process Improvement**
- **GMSEC – Ground and Flight**
- **Adjourn**



A State of Uncertainty...

We have:

- **A new Science Director – Dr. Lori Leshim**
- **A newly forming Directorate –Information Technology and Communication Directorate Code 700**
- **Shuttle Mission to service Hubble with deorbit Module**
- **Uncertainty about HQ Organization**
- **Uncertainty about all budgets**
- **Uncertainty about our role in Exploration**



GSFC Role – Our Contribution to NASA's Mission

GSFC provides a unique integration of science, engineering and program management to enable exploration and utilization of space.



GSFC Vision – Our Picture of the Ideal Future

- We have a shared vision and work seamlessly at all levels of the Center as one community
- Our work is fully aligned with and integral to achieving NASA's vision
- We have a diverse, talented, enthusiastic, and productive workforce doing exciting work
- We are fully staffed and have the right balance of civil servants, contractors, and other resources to get the job done
- We have effective, competitive business processes and state-of-the-art systems, tools and facilities
- We have a robust technology program that is well-aligned with Agency roadmaps
- We have successful internal and external partnerships that leverage the Center's core capabilities
- We have the full support of and recognition from our key stakeholders, partners, taxpayers and the public



GSFC Strategic Priorities

1. Capture the 'right work' for the Center
2. Ensure GSFC has a fully utilized, capable workforce
3. Establish effective, competitive business processes
4. Achieve leadership and recognition within the Agency and with partners, taxpayers, and the public



Where We Need To Be in 1-2 Years

- Balanced workforce to take on both Exploration and traditional core work
- Have a full, well honed suite of tools and processes which allow us to proactively manage under full cost
- Continued focus on excellence in flight and ground systems development and operations to keep our reputation as a place to get high quality products and services



“One Goddard” Family Themes

1. Think strategically about what is best for the Center
2. Don't undercut other GSFC codes or organizations
3. Recognize and reinforce that we succeed or fail as a group.
4. Understand the critical role that everyone plays in the accomplishment of the mission
5. Acknowledge that we are accountable to behave according to a set of operating guidelines that support and reinforce the Centers goals
6. Recognize, understand, support and appreciate each others roles.



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ISD Mission

Amongst all this change, let's remember that ...

We provide high value mission information systems products, expertise, and services, and to innovate and apply information technologies for GSFC science missions, measurements, and analysis.

And we do it very well! (proofs: Astro E2, CASSINI, MESSENGER, GOES N and O, Aura, Cream, Swift, JWST SIDUs, EO-1 Technology experiments, GMSEC Ground System, progress in cFE, initial SPI asset baselining...)



ISD Vision

Regardless of the uncertainty, this vision still holds...

The ISD is

Valued by flight projects and other customers for providing high-quality full capability information system products, expertise, and services on time and on budget

Forward looking to anticipate and meet future mission information system needs and opportunities in innovative and beneficial ways

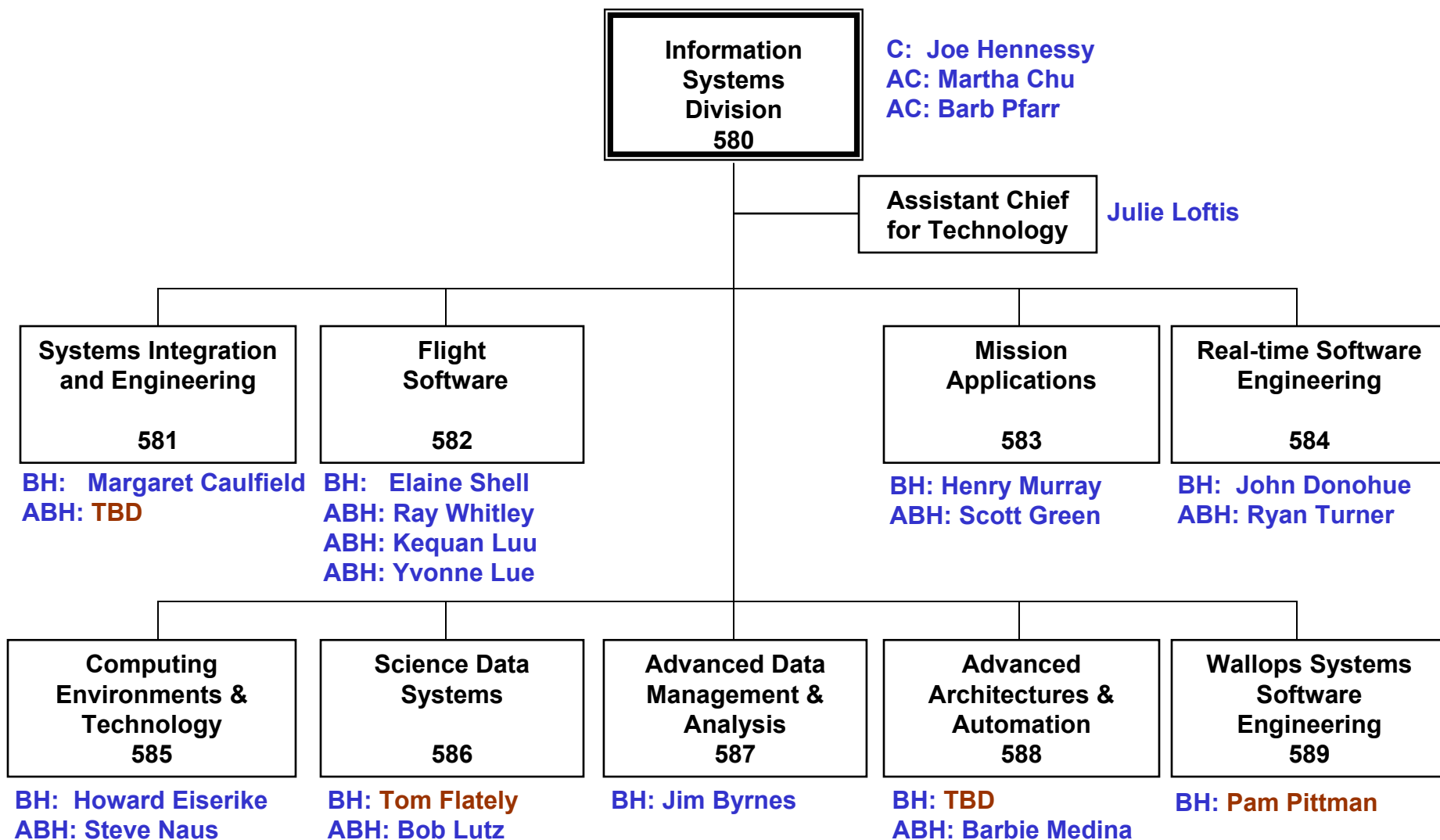
Sought after as a value-added partner for enabling new missions and science systems

Recognized for effective quality software processes & practices

Seen as a great place to work with an expert and energized workforce of employees and managers dedicated to customer success



Information Systems Division (ISD/580) Organization



7/14/2005

Revised 7/13/05



... and ISD FY05 Excellence Recognition

- **Engineering Excellence Awards**
 - **Howard Dew/581** in recognition of outstanding contributions and dedication in providing network engineering leadership and skill to the Swift and GLAST missions.
 - **John Bristow/583** in recognition of technical excellence and dedication in leading the GSFC Mission Services Evolution Center (GMSEC) message bus architecture development and integration efforts.
 - **Donna Wilson/582 Raytheon** in recognition of contractor excellence (without the associated cash award) in contributions to the SDO mission in overcoming numerous flight computer and staffing issues to provide hardware diagnostics across 4 SDNs
- **Technology Leadership Award**
 - **Jane Marquart /582** in recognition of outstanding technology leadership in the Flight Software Branch by fostering innovative and creative solutions, and enthusiastically encouraging and coordinating responses to technology opportunities.



ISD Employees Coming and Going

Coming

582 NICHOLAS YANCHIK
582 MICHAEL YANG
582 JACOB HAGEMAN
582 THOMAS JACKSON
582 KIMBERLY HAWKINS
582 PAUL MCCENEY (450)
582 MOSES MCCALL (560)
583 DANIEL HUNTER
584 CAMILLE BROOKS
584 VUONG LY
586 DANIEL ESPINOSA
588 VICTOR BIGIO
589 BEN CERVANTES

Going

581 RANDY HARBAUGH (R)
581 JOYCE PEPE (440)
581 MICHAEL RACKLEY (170)
581 WILLIAM WILDES (R)
582 LYNN MILES (560)
583 JOHN COOK(R)
583 JOHN WATSON (R)
585 GENE GRUNBY (R)
585 JOSEPH FAUNTEROY (610)
586 MIKE SEABLUM (610)
586 GREGORY TOTH (R)
587 CLARENCE WADE (R)
589 LEIGH GATTO (180, IV&V)
R= retirement



Your Skill, Flexibility, and Energy Is Essential ...

- Areas in need of help include FSW, Science Labs, NESC, Exploration: Consider a career adventure and help fill important roles !
- Join in and make GMSEC, ASF, CMMI and Robotics a success !
- We did excellent work in 2005 as proven by Aura, Swift on-orbit performance, by SDO, ST-5, HRV performance - let's keep it up!
- **We have specific goals for SPI: FSW at Level 2 by end of 2005, Level 2 for all “mission software” in the ISD by end of FY06. Join in the effort to make it right !**
- Our future is rich with exciting missions ranging from LRO through SDO and onto MMS, JWST & LISA
- Personal & organizational flexibility/agility with domain diversity & skills at working several concurrent efforts shall become *even more important*

Step up to help fill GSFC needs...

Your efforts shall get recognized !



Notable/Near-Term Personnel Actions...

Job openings in process:

The Code 588 Branch Head

The GMSEC Deputy Project Manager

The HST I&T Manager

ESDIS SSDO Deputy Manager

Robotics software experts in autonomy & visualization

Junior robotic software engineers

FSW Software Process Improvement engineer

Research computer scientist in sensor webs area

581 Associate Branch Head

LDCM Ground Systems Manager

Lead Engineer / Temporary relocation to White Sands, New Mexico GS13 - 3 to 4 years

SDO Ground System Readiness Test Manager (GSRTM)

Reassignments:

7 ISD employees will join Code 700



ISD Website

- Frequent updates
 - Software Process Improvement
 - ISD Status Reports
 - Branch Technical Review
 - Bi-Monthly Status Review
 - Papers and Presentations
 - Technology Education & Assessment Seminars (TEAS)
- Important Information
 - ISD Administrative & Employee Information
 - IT Security

<http://isd.gsfc.nasa.gov>



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ISD Management Retreat

Four Topics for ISD Management Retreat:

- Defining ISD's Future Direction
- Working with Code 600
- Proposing New Work
- Managing under Full Cost



Defining ISD's Future Direction

ISD's future direction is

- Maintain our current mission and science support work
- Market our capabilities to Code 600 and HQ
- Win new work through proposals



ISD's Future Mission Direction

- ISD priorities for future mission work:
 - JWST –Biggest existing project at GSFC
 - LISA – Big future project at GSFC
 - MMS and LREP– Major potential projects for most of the branches
 - C³I – Significant opportunity to get us in with EI



Working with Code 600

- Work closely with Code 600 “Bullpen” especially with instrument systems engineer
 - Perform hardware and software trades
 - Examine or study feasibility of processing science data on board
 - Scope science data compression
 - Perform data reduction
 - Build relationship with Principal Investigators (PIs)



Working with Code 600

- Set up quarterly or half yearly meeting with Code 600 Division chiefs
- Need to understand who and where the instrument teams are
- Need to team with science PIs for technology proposals
- Work with our allies – Mike Seablom, John Dalton, etc.
- Create a road show to promote ISD capabilities



Working with HQ

- Work with our allies at HQ
- Visit HQ to stay on their radar and to promote specific ISD initiatives (from SPI to CFS, etc.)



Proposing New work

- For small calls
 - Brain storm ideas/analyze call
 - Set up needs list
 - Peer/management review
- For big calls
 - Do ongoing work to identify priorities and build advocacy/support/partners
 - Follow above process



Proposing new work

- For unsolicited proposals
 - Proposers sell to Branch management (go/no-go decision)
 - Branch management identifies potential customers
 - Proposer sells to Division management (go/no-go decision)
 - Concept, potential customers, scope
 - Project plan
 - Return on investment
 - Proposer sells to Directorate (go/no-go decision)
 - Proposer sells to 400/600
 - Obtain funding – no go to Center Director then go to HQ or other options



Managing Under Full Cost

- Acquire more new work
 - More mission work
 - More Science Directorate work
 - Win more proposals
- Flexible to take on new area of work
- Work closely with our customer to assess needs
- Build stronger relationships with programs
- Use existing “open position list” to manage vacancies
- Implement strategy for broadening skill mix across branches
- Create a strategy to respond quickly to requirements for support
- Stay aware of opportunities and staff civil servants first
- Inform projects about civil servant skills and experience and value they bring
- Market our products and services